

## BUTTERFLY TYPE CHECK VALVE

The butterfly type check valve is a metal/rubber sealing check valve, for use in Water or in wastewater/sewage systems.

Designed to prevent back flow and be fully automatic operation.

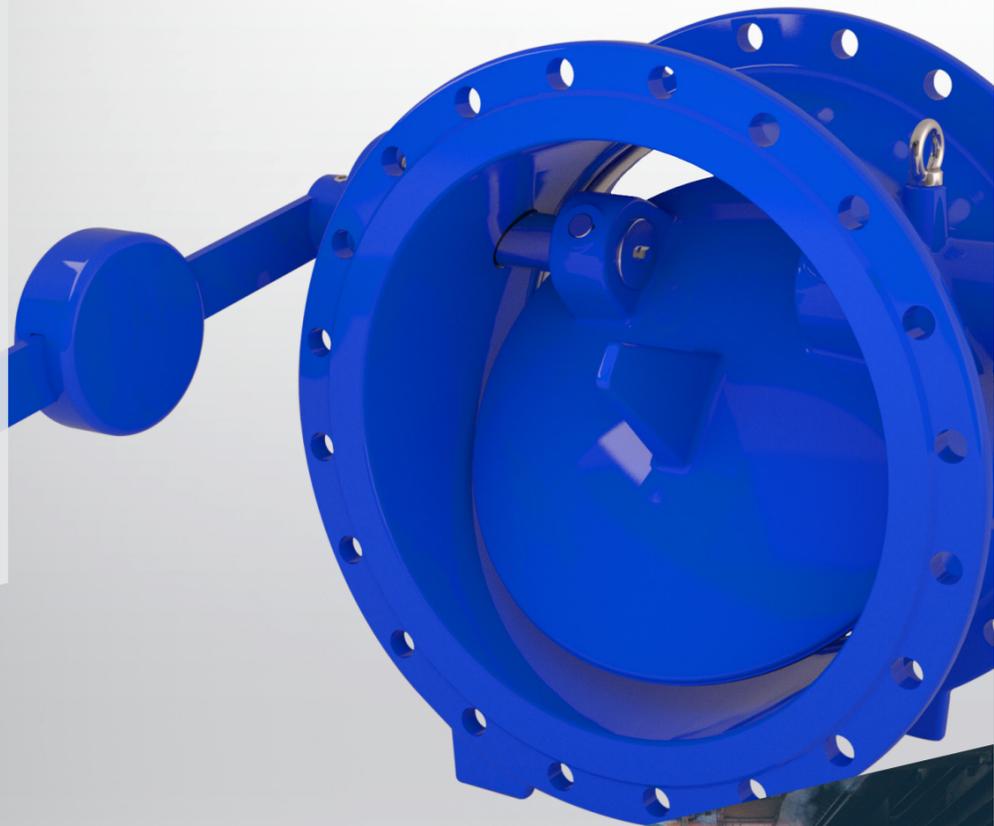
During system flow conditions, the movement of the fluid forces the disc to the open position. Under reverse flow conditions, the disc automatically returns to the closed position to prevent reverse flow.

The Fucoli-Somepal butterfly type check valve has a short-pattern design (face-to-face S14 according EN 558) and is available with nominal diameters range from DN 150 to DN 1000 and pressure ratings range from PN 10 to PN 16.

The shafts are in stainless steel AISI304 (optionally AISI316L) are maintenance-free, with self-lubrication friction bronze bearing system.

The valve is available with body seat and obturator seat in bronze, optionally the seats could be in stainless steel AISI 304 or AISI 316L according to the use.

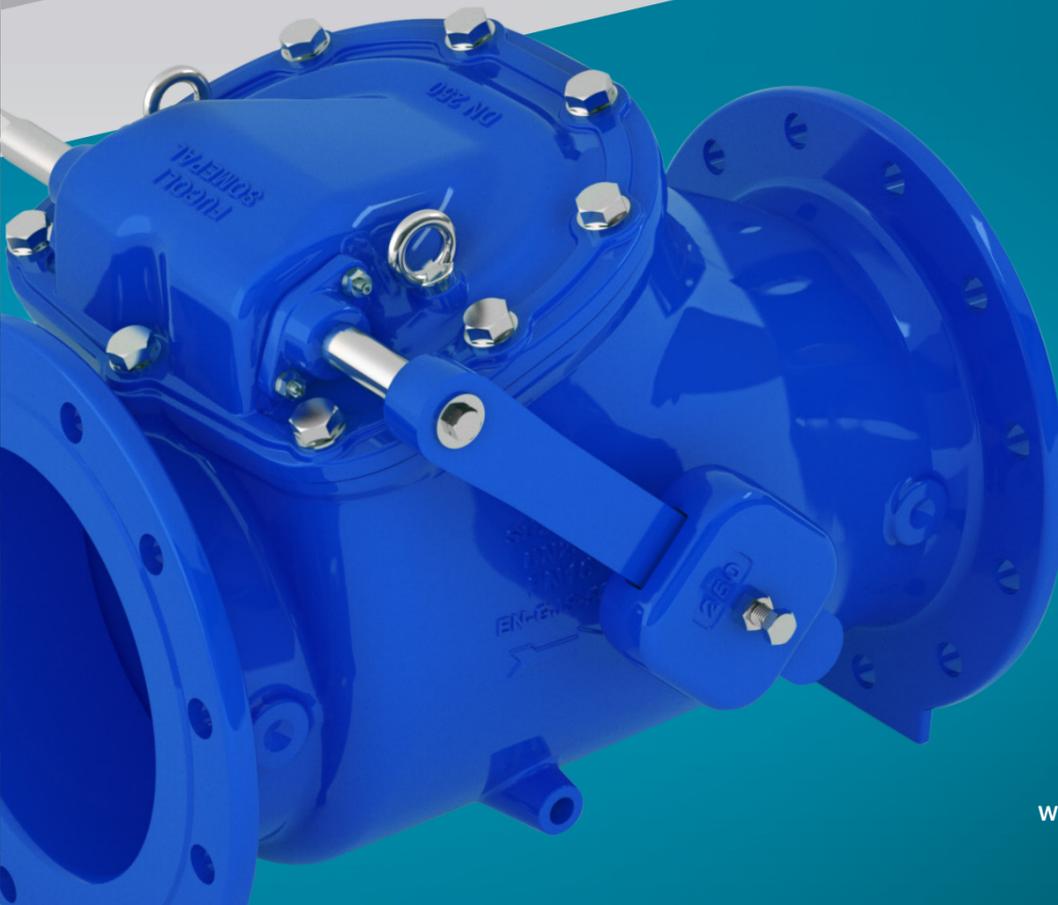
The valve is supplied with an adjustable lever and counterweight, that can be used to vary the valve's closing operation in order to reduce the magnitude of the closing Water hammer.



**Fucoli Somepal**  
FUNDIÇÃO DE FERRO, S.A.

SEIT  
SINCE 1946

**Check  
valves**



## CONTROL OF THE ENTIRE PRODUCTION PROCESS

The two Fucoli-Somepal factories are located in Portugal, where is controlled the entire production process ensuring a constant quality of its products. The selection of raw materials sources is rigorous and careful. All raw materials before received are analyzed in our laboratory.

Using a modern automatic pouring system, all products are manufactured in ductile cast iron EN-GJS-500-7 (GGG50).

The mechanization of the products is carried out using the latest CNC Machining technologies.

## CORROSION PROTECTION

All products has an internal and external excellent corrosion protection. The coating quality is controlled according to the requirements of DIN 30677 and GSK (RAL-GZ662).

Fucoli-Somepal has three coating systems - robotic, automatic and semi-automatic - which is electrostatically applied epoxy coating with a minimum thickness of 250µm.

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## SWING CHECK VALVE SERIES SUPRA

Swing check valve series SUPRA is a metal/metal sealing non return valve with many design features and characteristics that will provide energy savings, easy maintenance and extended valve life.

### PRESSURE TESTS AT 100%

All valves are individually hydrostatically tested in the factory at high and low pressure, according to EN 12266.

### Advantages:

·Easy maintenance: the sealing system can be easily remove, without removing the valve from the pipeline, by unscrewing the bonnet/body bolts and by lifting the bonnet all internal parts, including shaft and disc, will be removed from the valve body.

·Body complete passage, full bore and smooth, in order to assure low head loss.

·The effect of cavitation is practically null do the geometric configuration of the valve.

·The lever and counterweight equipped valve is prepared to be installed into the pipeline on vertical or horizontal position. The lever and counterweight can be assembled on the left or right side facilitating the valve installation and avoiding hurdles.

·The sealing obturator has reliability and stability due to the double arm separating.



The valve is designed for use in water or in wastewater/sewage systems to prevent back flow and to be fully automatic in operation.

It is provided with a body and bonnet in ductile cast iron EN-GJS-500-7, body seat in bronze (stainless steel AISI 304 or AISI 316L according to the use), shaft in stainless steel 420 (stainless steel AISI 304 or AISI 316L according to the use) and disc in stainless steel 420 (stainless steel 316L according to the use).

During system flow conditions, the movement of the fluid forces the disc to the open position allowing 100% un-restricted flow area through the valve. Under reverse flow conditions the disc automatically returns to the closed position to prevent reverse flow.

The swing check valve series SUPRA has a face-to-face dimension according to EN 558 serie 48 and is available with nominal diameters range from DN 50 to DN 600 and pressure ratings range from PN 10 to PN 40, for use in water and wastewater/sewage flow.



Can be supplied with a plug to purge and clean up.



## BALL CHECK VALVE SERIES BOLA

The ball check valve series BOLA is a non return valve with metal/rubber sealing, designed to be fully automatic in operation.

The Fucoli-Somepal ball check valve series BOLA has a face-to-face flanged pattern S48 according EN 558 and is available with flanges from DN 40 to DN 400 or with threaded pattern from DN 32 (1 1/4") to DN 50 (2") to pressure ratings range from PN 10 to PN 16 for drinking water and wastewater/sewage system.

If requested, can be installed a plug for inspection and cleaning.



The valve is provided with a body and bonnet in ductile cast iron, ball inner in aluminum (up to DN 100) or in ductile cast iron (from DN 125) coated in EPDM or NBR elastomer according to the use.

The valve can be installed horizontally or vertically.

During the system flow conditions, the movement of the fluid moves the ball automatically out of the path of flow, providing an unobstructed smooth flow through the valve body. Under reverse flow the ball automatically rolls back to the closed position, providing a positive seal against back pressure or back flow.



### Advantages:

·Low load losses.

·Requires little mounting space due to its compact design.

·Free passage when opened which provides maximum utilization of the pump capacity.

·Full bore passage in accordance to the diameter.

·Does not accumulate deposit.

·Easy and quick maintenance system for internal ball removing.

check valves